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WATER SUPPLY OUTLOOK FOR OREGON

U.S. DEPT. OF AGRICULTURE

MAR 25 '75

DOCUMENT SECTION
CURRENT SERIAL RECORDS



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**OREGON STATE UNIVERSITY and STATE ENGINEER
of OREGON**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAR. 1, 1975

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Cabins near Sacajawea Snow Course
in Bridger Mountains, Montana.*

SCS PHOTO 11-P480-15

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

MARCH 8, 1975

Issued by

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ADMINISTRATOR
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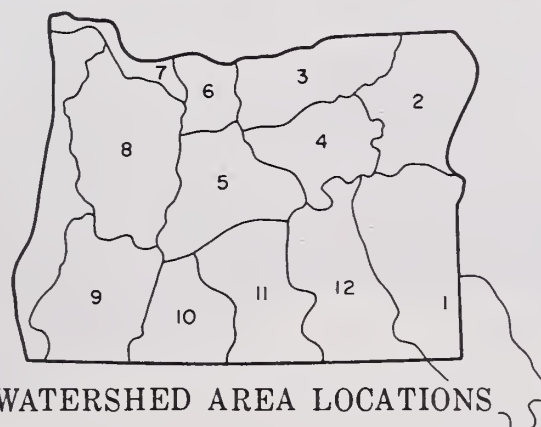
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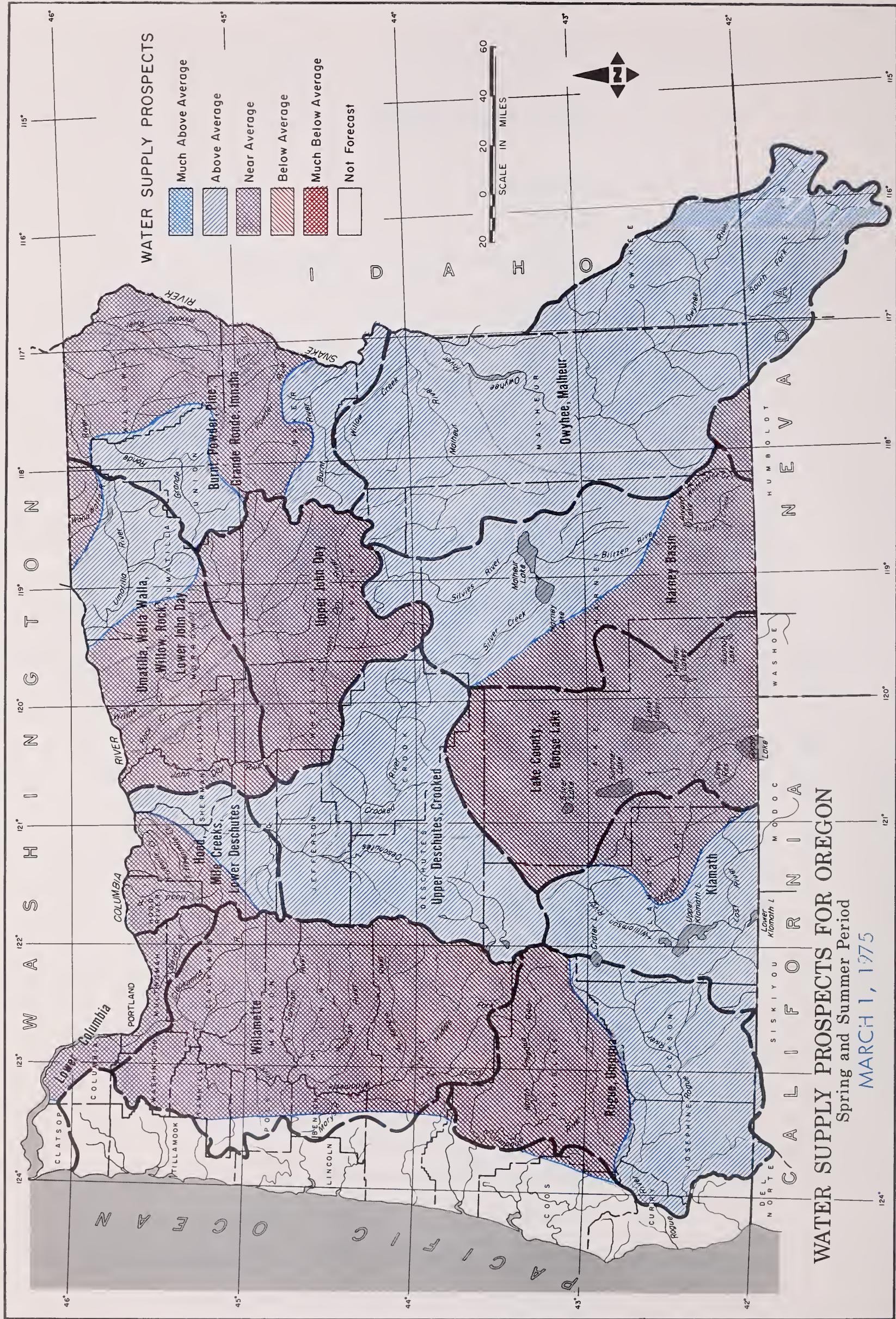
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WATER SUPPLY OUTLOOK for OREGON

MARCH 1, 1975

Above average water supplies are in store for most of Oregon this next summer. The mountain snow pack is above average in most locations. February precipitation was above average throughout the state. Reservoir storage is good and the overall water supply picture looks very good.

SNOW COVER

Heavy snowstorms during the past month provided significant increases in the snowpack throughout the state and all areas are reporting above average amounts for March 1. Largest increases occurred in the southern portion of the state where the Lake County Area jumped from 75 percent to 150 percent of normal.

PRECIPITATION

February precipitation varied from slightly above average in the Umatilla Basin to 2 times the normal amount in Lake County. Total precipitation for the November-February winter period is now near normal in most areas of the state and increases in soil moisture have been noted in many areas.

RESERVOIR STORAGE

Irrigation reservoir storage is slightly above normal for this time of year. Twenty-six major reservoirs were storing 2,153,000 acre feet on March 1 which is 106 percent of average.

STREAMFLOW

Streamflow for the water year which starts in October has been mostly below normal. Streams which have more than normal contributions from springs and ground water have been near average. This is a result of last years heavy snowpack.

Summer streamflow forecasts for Oregon generally range from 100 percent to 150 percent.

This report contains data furnished by the Oregon State Engineer,
U. S. Geological Survey, NOAA National Weather Service, and other
cooperators.



WATER SUPPLY OUTLOOK
OWYHEE, MALHEUR WATERSHEDS
OREGON
as of

MARCH 1, 1975

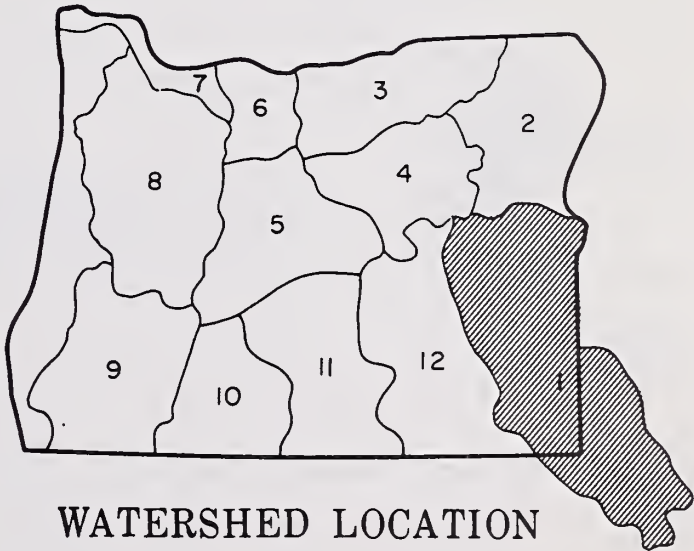
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE THROUGHOUT THE OWYHEE AND MALHEUR WATERSHEDS. PRECIPITATION DURING FEBRUARY WAS 77% ABOVE NORMAL, AND THE SNOWPACK INCREASED TO 1-1/2 TIMES THE MARCH 1 AVERAGE. TOTAL FALL PRECIPITATION IS NOW NEAR AVERAGE BUT THE SOILS UNDER THE SNOWPACK REMAIN DRY. RESERVOIR STORAGE IS GOOD AND ALL STREAMFLOW FORECASTS AREA ABOVE AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek	Excellent	Excellent
Bully Creek	Average	Average
Cow Creek	Average	Average
Jordan Creek	Excellent	Average
Jordan Valley Irrig. Dist.	Excellent	Average
McDermitt Creek	Average	Average
Oregon Canyon Creek	Average	Average
Owyhee Project	Excellent	Excellent
Succor Creek	Average	Average
Tenmile Creek	Average	Average
Vale-Oregon Irrig. Dist.	Average	Average
Warm Springs Irrig. Dist.	Average	Average
Willow Creek (Reservoired)	Excellent	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year
Bully Creek at Warm Springs	27	142	March-May	19.3 ^m
Malheur near Drewsey	132	140	March-July	94
	92	128	Apr.-Sept.	72
Malheur, North Fork at Beulah ^d	78	108	March-July	72
	70	109	Apr.-Sept.	64
Owyhee Reservoir net Inflow ^k	560	130	March-July	778
	448	135	Apr.-Sept.	408

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000	June 13	May 24
	250	June 24	June 20

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Antelope	70.0	b	19.2	16.7 ^m
Beulah Reservoir	60.0	30.8	49.3	30.8 ^m
Bully Creek	30.0	14.1	20.4	15.6 ⁱ
Owyhee	715.0	467.4	536.5	451.2
Warm Springs	191.0	130.4	84.3	96.5

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Malheur River	2	70	79
Owyhee River	1	87	84

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Jordan Creek	2	94	126
Malheur River	5	99	144
Owyhee River	5	104	159

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

OREGON

as of
MARCH 1, 1975

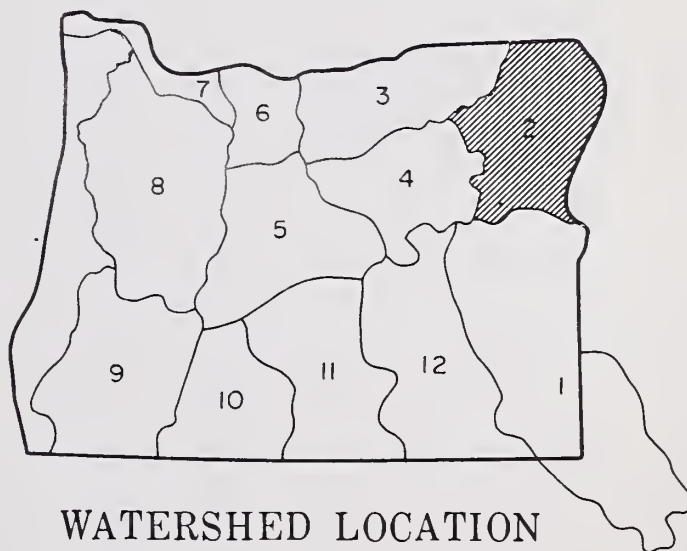
GENERAL OUTLOOK

ADEQUATE WATER SUPPLIES ARE FORECAST FOR NORTHEASTERN OREGON. THE SNOWPACK VARIES FROM 120% TO 140% OF AVERAGE. PRECIPITATION DURING FEBRUARY WAS 1-1/2 TIMES NORMAL AND THE SOIL MOISTURE HAS INCREASED IN THE BURNT AND POWDER WATERSHEDS. RESERVOIR STORAGE IS NEAR AVERAGE AND STREAMFLOWS ARE FORECAST AT OR SLIGHTLY ABOVE NORMAL.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope	Average	Average
Baker Valley	Average	Average
Big Creek	Average	Average
Clover Cr. (nr. N. Powder)	Average	Average
Cove	Excellent	Excellent
Durkee	Excellent	Excellent
Eagle Valley	Average	Average
Elgin	Excellent	Excellent
Enterprise-Joseph	Average	Average
Hereford-Bridgeport	Average	Average
Imnaha River	Average	Average
LaGrande-Island City	Average	Average
Lostine-Wallowa	Average	Average
No. Powder River-Wolf Creek	Average	Average
Pine Valley	Average	Average
Powder River-Elk Creek	Average	Average
Summerville	Average	Average
Sumpter Valley	Average	Average
Union-Hot Lake	Excellent	Average
Unity	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORL CAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Bear near Wallowa	77	117	Apr.-Sept.		66
Burnt near Hereford ^d	47	112	March-July		42
	43	130	Apr.-Sept.		33
Catherine near Union	80	123	Apr.-Sept.		65
Eagle Creek abv. Skull Creek	177	101	Apr.-July		175
	193	102	Apr.-Sept.		190
Grande Ronde at La Grande	225	116	March-July	324	193
	203	128	Apr.-Sept.	268	158
Hurricane near Joseph	48	102	Apr.-Sept.		47
Imnaha at Imnaha	319	104	Apr.-Sept.		307
Lostine near Lostine	129	103	Apr.-Sept.		125
Powder near Sumpter	58	105	Apr.-July		55
	60	107	Apr.-Sept.		56
Wallowa, East Fork near Joseph ^d	12.5	102	March-Sept.		12.2
	11.7	103	Apr.-Sept.		11.4

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Phillips Lake	73.5	55.2	35.2	--
Thief Valley	17.4	17.4	17.4	17.3 ^m
Unity	25.2	12.7	15.4	14.0
Wallowa Lake	37.5	26.3	16.3	22.3

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Burnt River	4	76	117
Grande Ronde River			
above La Grande	4	84	142
Powder River	5	78	119
Wallowa, Imnaha, Catherine Creek	6	79	120

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Burnt, Powder	2	70	90
Grande Ronde, Catherine Creek, Imnaha River	3	86	97

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK,
LOWER JOHN DAY WATERSHEDS

OREGON

as of

MARCH 1, 1975

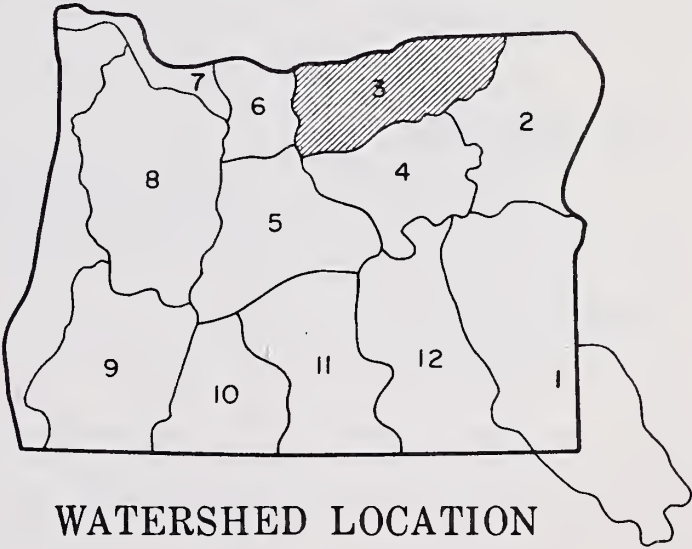
GENERAL OUTLOOK

NEAR AVERAGE WATER SUPPLIES ARE FORECAST FOR THE UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY WATERSHEDS. THE SNOWPACK AND RESERVOIR STORAGE AREA ABOVE NORMAL BUT THE SOIL MOISTURE IS LESS THAN 90% OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fork	Average	Average
Walla Walla River, So. Fork	Average	Average
Walla Walla River, Main	Average	Average
Walla Walla River, Little	Average	Average
Couse Creek	Average	Average
Dry Creek	Average	Average
Pine Creek	Average	Average
Umatilla River, Main	Average	Average
Wildhorse Creek	Average	Average
Umatilla R. (Cold Springs Reservoir)	Average	Average
Umatilla R. (McKay Res.)	Average	Average
McKay Creek	Average	Average
Birch Creek	Average	Average
Butter Creek	Average	Average
Willow Creek	Average	Average
Rhea Creek	Average	Average
Rock Creek (John Day Tributary)	Average	Average



U.S.D.A. SOIL CONSERVATION SERVICE
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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Birch Creek at Rieth	24	109	March-July		22
	17.4	109	Apr.-Sept.		16.0
Butter Creek near Pine City	10.1	89	March-July		11.4
McKay near Pilot Rock	28	117	Apr.-July		24
	29	121	Apr.-Sept.		24
Umatilla near Gibbon	103	106	Mar.-Sept.		97
	79	105	Apr.-Sept.		75
Umatilla at Pendleton	217	108	March-Sept.		200
	166	115	Apr.-Sept.		144
Walla Walla, South Fork near Milton	79	100	March-Sept.		79
	66	100	Apr.-Sept.		66

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	June 15	May 22

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Cold Springs	50.0	38.0	39.1	41.4
McKay	73.8	57.4	60.5	40.2

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Umatilla, Walla Walla, McKay Creek	3	87	87

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
McKay Creek	3	73	137
Umatilla River	3	60	131
Walla Walla River	2	51	111

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UPPER JOHN DAY WATERSHEDS

OREGON

as of

MARCH 1, 1975

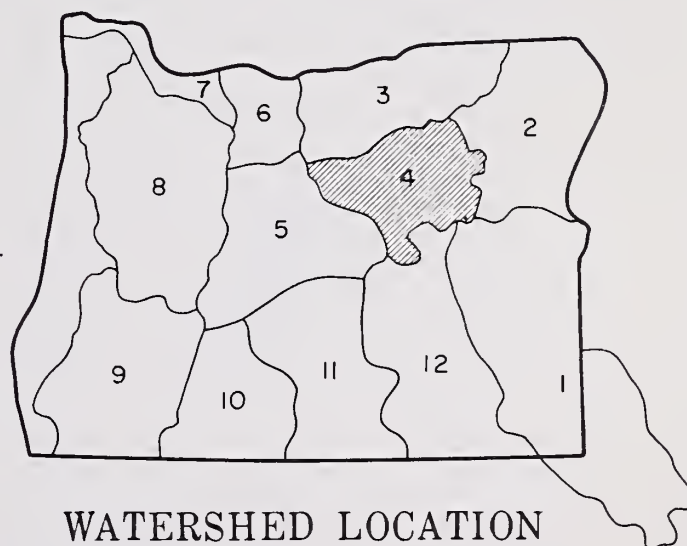
GENERAL OUTLOOK

ADEQUATE WATER SUPPLIES WILL BE AVAILABLE FOR USERS IN THE UPPER JOHN DAY WATERSHEDS. ONE AND ONE-HALF TIMES THE NORMAL PRECIPITATION FELL DURING FEBRUARY INCREASING THE SNOWPACK, BUT THE SOIL MOISTURE IS STILL BELOW NORMAL.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek	Average	Average
Beech Creek-Fox-Long Cr.	Average	Average
Bridge-Mountain Creeks	Average	Average
Camas Creek	Average	Average
Cherry Creek	Average	Average
Indian-Pine Creeks	Average	Average
John Day River, Main Fork	Average	Average
John Day River, Mid. Fork	Average	Average
John Day River, N. Fork	Average	Average
John Day River, S. Fork	Average	Average
Monument-Kimberly	Average	Average
Strawberry Creek	Average	Average



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Camas Creek near Ukiah	40	94	Mar.-July		43
	34	103	Apr.-Sept.		33
John Day, Middle Fork at Ritter	142	110	Mar.-July		129
	119	110	Apr.-Sept.		108
John Day, North Fork at Monument	646	100	Mar.-July		646
	540	100	Apr.-Sept.		540
Strawberry near Prairie City	8.5	118	Mar.-July		7.2
	8.6	113	Apr.-Sept.		7.6

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
John Day above Dayville	5	75	87
John Day, North Fork	2	83	98

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
John Day, North Fork	7	79	112
John Day, abv. Dayville	5	90	128

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS
OREGON*as of*

MARCH 1, 1975

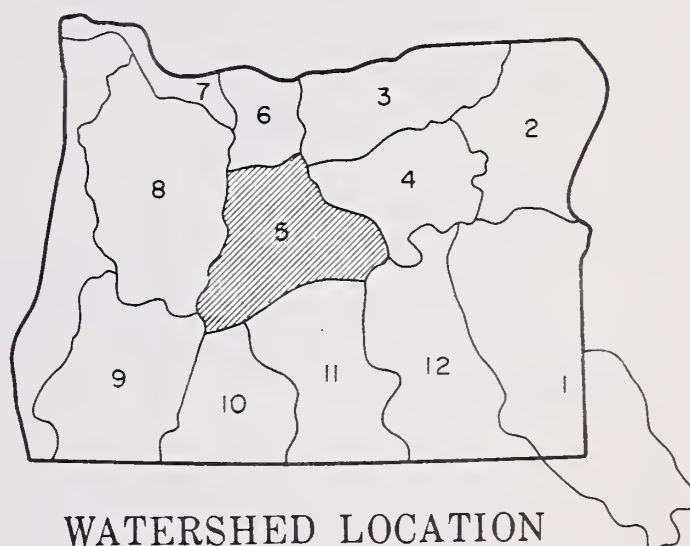
GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR MOST OF THE UPPER DESCHUTES AND CROOKED RIVER WATERSHEDS DURING THE SPRING AND SUMMER OF 1975. THE SNOWPACK VARIES FROM 125% TO 160% OF NORMAL. WINTER PRECIPITATION AND SOIL MOISTURE ARE STILL BELOW AVERAGE BUT STREAMFLOW FORECASTS ARE ALL ABOVE AVERAGE AND MOST RESERVOIRS WILL FILL.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation Dist.	Average	Average
Bear Creek	Average	Average
Beaver Creek	Excellent	Average
Camp Creek	Average	Average
Central Ore. Irrig. Dist.	Average	Average
Crooked River	Average	Average
Deschutes River	Average	Average
Hay-Trout Creeks	Excellent	Average
Lone Pine Irrig. Dist.	Excellent	Average
Mill Creek	Excellent	Average
North Unit Irrig. Dist.	Average	Average
Ochoco Creek	Excellent	Excellent
Sisters Irrigation Dist.	Average	Average
Snow Creek Irrig. Dist.	Average	Average
Squaw Creek Irrig. Dist.	Average	Average
Swalley Ditch	Average	Average
Tumalo Project	Excellent	Excellent
Walker Basin Irrig. Dist.	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Beaver Creek near Paulina	39	134	Mar.-July		25
	20	125	Apr.-Sept.		16
Crane Prairie Reservoir total Inflow	139	117	Apr.-Sept.		119
Crescent at Crescent Lake ^d	28	133	Mar.-July		21
	30	136	Apr.-Sept.		22
Crooked near Post	162	120	Mar.-July		135
	118	129	Apr.-Sept.		91
Deschutes at Benham Falls ^d	416	116	Apr.-July		360
	627	114	Apr.-Sept.		550
Deschutes below Snow Creek	81	119	Mar.-Sept.		69
	74	119	Apr.-Sept.		62
Deschutes, Little near La Pine ^d	105	117	Mar.-July		90
	102	104	Apr.-Sept.		79
Ochoco Reservoir net Inflow	38	137	Mar.-July		27
	27	146	Apr.-Sept.		19
Odell near Crescent	39	142	Apr.-Sept.		28
Squaw near Sisters	53	104	Apr.-Sept.		50
Tumalo near Bend	57	130	Apr.-Sept.		44

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value	RESERVOIR	Usable Capacity	Usable Storage		
						This Year	Last Year	Average ⁱ
Crane Prairie net Inflow	300	*	July 15	Crane Prairie	55.3	58.0	39.8	43.4
				Crescent Lake	86.9	88.0	79.7	48.3
Crooked R. near Post	100	May 30	June 1	Ochoco	47.5	24.8	36.8	25.6
Deschutes at Bend	1500	*	July 1	Prineville	153.0	97.8	102.5	112.4 ^m
				Wickiup	200.0	189.3	161.1	168.7
Little Deschutes near La Pine	400	June 12	June 7					
	200	July 8	July 8					
*Issued on April 1.								

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ			Last Year	Average ⁱ
Crooked R., Upper Deschutes River	3	77	85	Crooked, Ochoco	4	104	134
				Deschutes abv. Wickiup	3	88	127
				Little Deschutes	4	83	133
				Tumalo & Squaw Crs.	4	111	158

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

HOOD, MILE CREEKS, LOWER DESCHUTES

WATERSHEDS

OREGON

as of

MARCH 1, 1975

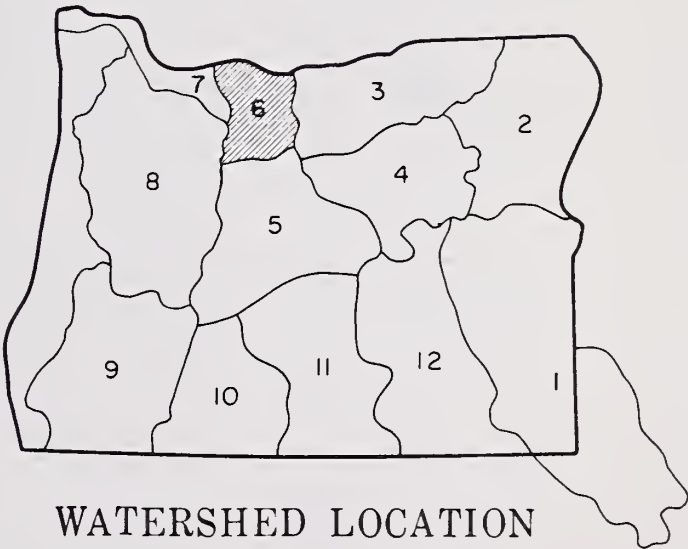
GENERAL OUTLOOK

ADEQUATE WATER SUPPLIES WILL BE AVAILABLE TO WATER USERS IN HOOD RIVER AND WASCO COUNTIES. THE SNOWPACK RANGES FROM 117% OF AVERAGE ON THE HOOD RIVER WATERSHED TO 155% ON MILE CREEKS WATERSHEDS. FEBRUARY PRECIPITATION WAS 26% ABOVE AVERAGE BRINGING THE TOTAL WINTER PRECIPITATION UP TO NORMAL. STORAGE IN CLEAR LAKE IS 3 TIMES THE NORMAL AMOUNT FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek)	Average	Average
Badger Creek	Average	Average
Dee Irrigation Dist.	Average	Average
East Fork Irrig. Dist.	Average	Average
Farmers Irrigation Dist.	Average	Average
Hood River Irrig. Dist.	Average	Average
Juniper Flat	Average	Average
Middle Fork Irrig. Dist.	Average	Average
Mile Creeks	Average	Average
Mill Creek	Average	Average
Mount Hood Irrig. Dist.	Average	Average
Rock-Gate-Threemile Crs.	Average	Average
Tygh Creek	Average	Average
White River	Average	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Hood River near Tucker Bridge	286	100	Apr.-July		286
	339	102	Apr.-Sept.		332
Hood, West Fork near Dee	137	104	Apr.-July		132
	162	105	Apr.-Sept.		154
White below Tygh Valley	131	111	Apr.-July		118
	152	114	Apr.-Sept.		133

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	*42	July 15-31	**39
*Average cfs forecast to flow for this two-week period.			
**Average cfs for period of record.			

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Clear Lake (Wasco)	11.9	9.8	4.4	3.1

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Hood River	6	58	117
Mile Creeks	3	101	155
White River	3	62	123

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

LOWER COLUMBIA WATERSHEDS

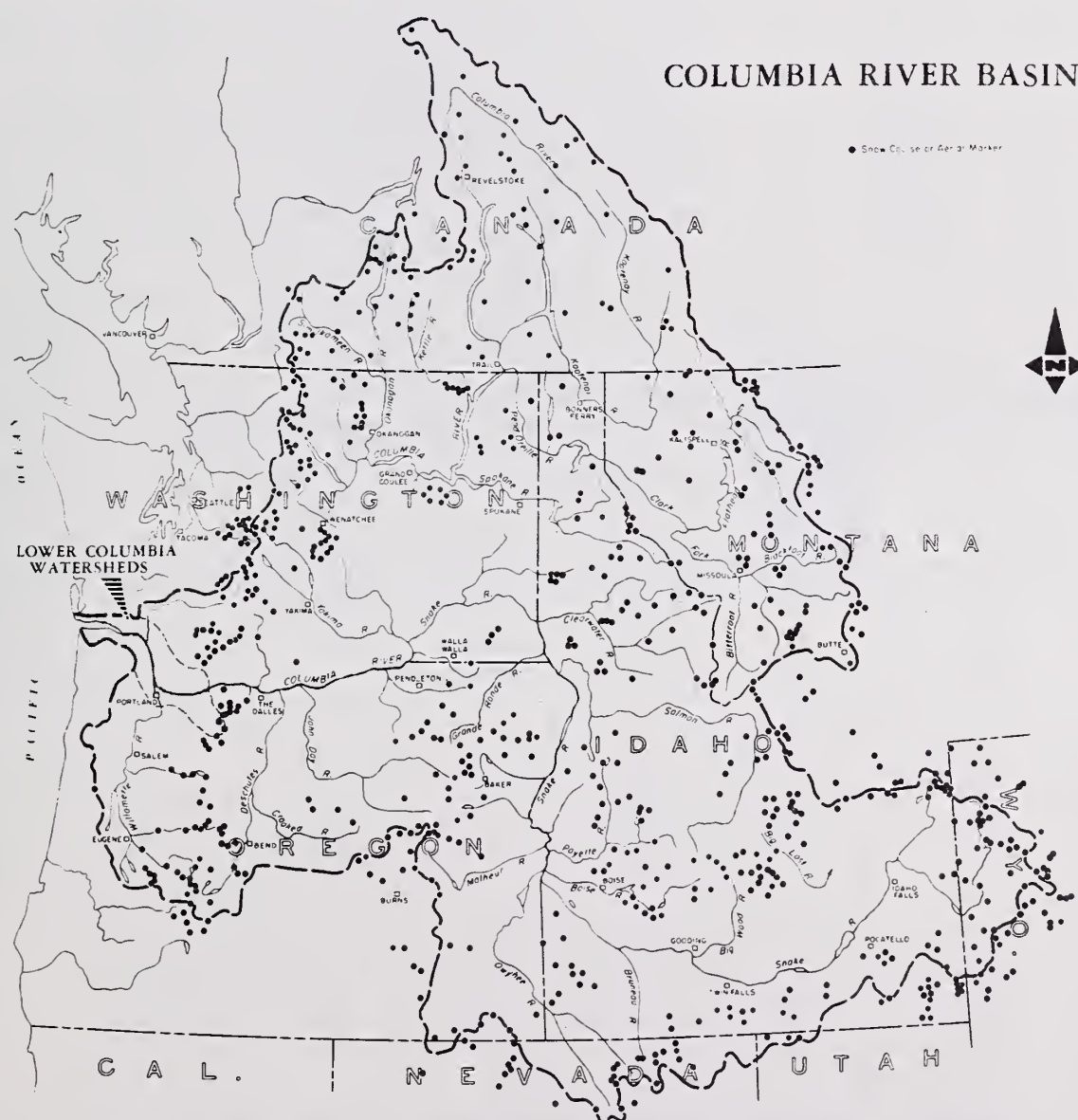
OREGON

as of

MARCH 1, 1975

GENERAL OUTLOOK

THE SNOWPACK IN THE COLUMBIA BASIN AVERAGES 5% ABOVE NORMAL FOR MARCH 1. HOWEVER, SNOW IN THE WEST PORTION - OREGON, WASHINGTON AND WESTERN BRITISH COLUMBIA - GENERALLY RANGES 15% TO 45% ABOVE AVERAGE. EASTERN WATERSHEDS NEAR THE CONTINENTAL DIVIDE IN IDAHO, MONTANA AND EASTERN BRITISH COLUMBIA HAVE SNOWPACKS RANGING 15% BELOW TO 15% ABOVE. SNOW IN SOME LOW ELEVATION AREAS IS MUCH ABOVE AVERAGE. TWO EXAMPLES ARE THE PALOUSE AND OWYHEE WATERSHEDS WITH 60% MORE THAN NORMAL. MOST MOUNTAIN SOILS CONTINUE TO BE DRIER THAN NORMAL DUE TO THE LOW FALL PRECIPITATION. THE FEBRUARY FLOW OF THE COLUMBIA AT THE DALLES WAS ONLY 78% OF AVERAGE.



U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Sandy River	2	63	125

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Columbia at The Dalles ^d	76,500	105	Apr.-June		73,160
	110,000	105	Apr.-Sept.		104,426
Sandy River near Marmot	327	95	Apr.-July		343
	382	96	Apr.-Sept.		398

HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW ^d (1,000 A.F.)			REGULATED PEAK (1,000 cfs)	DATE
	APR - SEPT.	APR - JUNE	MAY - JUNE		
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1968	89,000	55,500	47,900	404	June 13
1969	112,300	85,700	63,800	515	May 15
1970	88,100	62,800	55,200	425	May 28
1971	122,900	88,400	73,700	557	May 13
1972	134,700	96,400	81,400	619	June 20
1958-72 Avg.	104,300	72,900	59,900	529	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu)	FLOW AT THE DALLES (1,000 c.f.s)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32 (1972)	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.

WATER SUPPLY OUTLOOK

WILLAMETTE WATERSHEDS

OREGON

Area 8

as of

MARCH 1, 1975

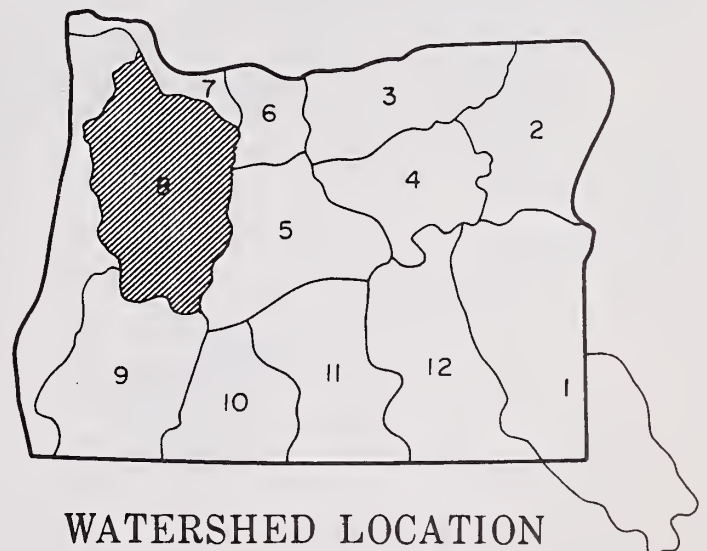
GENERAL OUTLOOK

AVERAGE WATER SUPPLY CONDITIONS WILL PREVAIL FOR MOST OF THE WILLAMETTE VALLEY DURING THE SPRING AND SUMMER MONTHS. THE SNOW-PACK VARIES FROM NEAR AVERAGE ON THE CLACKAMAS TO 42% ABOVE AVERAGE ON THE MCKENZIE. WINTER PRECIPITATION HAS BEEN NEAR NORMAL. FLOOD STORAGE RESERVOIRS ARE BEING HELD AT THEIR USUAL LOW LEVEL FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Average	Average
Clackamas	Average	Average
McKenzie	Average	Average
Molalla	Average	Average
Santiam, North	Average	Average
Santiam, South	Average	Average
Willamette, Coast Fork	Average	Average
Willamette, Middle Fork	Average	Average



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STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Clackamas at Estacada	675	100	Apr.-July		674
	786	100	Apr.-Sept.		789
Clackamas above Three Lynx	506	100	Apr.-July		507
	601	100	Apr.-Sept.		604
McKenzie at McKenzie Bridge	457	101	Apr.-July		454
	607	102	Apr.-Sept.		599
McKenzie near Vida	1124	109	Apr.-July		1035
	1365	108	Apr.-Sept.		1263
McKenzie, So. Fork near Rainbow	251	119	Apr.-July		210
	276	116	Apr.-Sept.		239
Oak Grove Fork above Power Intake	127	103	Apr.-July		123
	172	106	Apr.-Sept.		162
Row near Dorena	97	99	Apr.-July		98
	102	100	Apr.-Sept.		102
Santiam, North at Mehama ^d	737	96	Apr.-July		765
	848	97	Apr.-Sept.		872
Santiam, South at Waterloo	539	96	Apr.-July		564
	583	96	Apr.-Sept.		607
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	809	119	Apr.-July	1037	678
	911	117	Apr.-Sept.	1147	779
Willamette, No. Fk. of Mid. Fk. near Oakridge	205	108	Apr.-July		189
	222	106	Apr.-Sept.		209
Willamette at Salem ^d	4400	100	Apr.-July		4397
	4940	100	Apr.-Sept.		4943

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Clackamas River	2	51	103
McKenzie River	3	86	142
Row River	2	54	109
Santiam River	4	62	109
Willamette, Mid. Fk.	5	79	131

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Blue River	85.6*	38.9	31.7	--
Cottage Grove	30.0*	8.5	7.6	8.4
Cougar	155.2	69.9	49.4	41.7 ^m
Detroit	299.9*	134.2	103.9	110.6
Dorena	70.5*	19.4	18.1	19.8
Fall Creek	115.0*	46.4	45.6	37.5 ^m
Fern Ridge	94.2*	49.8	35.2	36.3
Foster	30.0*	7.4	10.4	6.0 ^m
Green Peter	270.0*	135.4	114.0	109.7 ^m
Hills Creek	200.0*	101.2	75.7	59.9 ^m
Lookout Point	337.2*	138.7	108.2	97.3
Timothy Lake	61.7	60.2	56.3	53.0
*Multiple purpose reservoir--space reserved primarily for flood runoff.				

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

ROGUE, UMPQUA, WATERSHEDS

OREGON

as of

MARCH 1, 1975

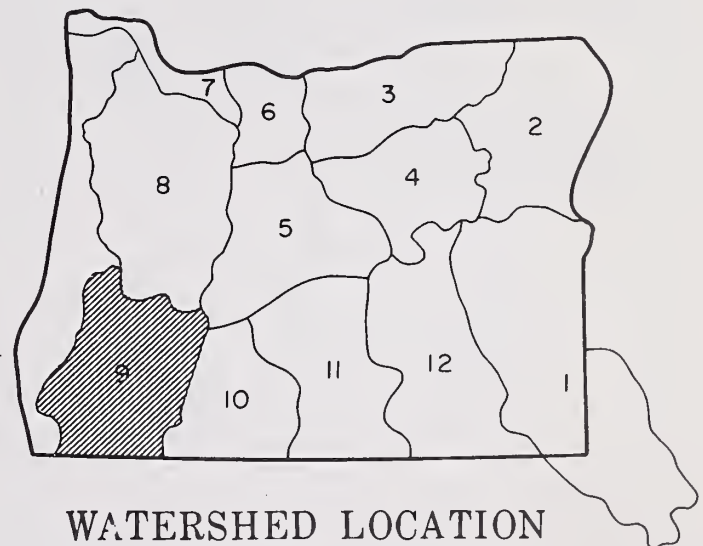
GENERAL OUTLOOK

GOOD WATER SUPPLIES ARE FORECAST FOR THE ROGUE, UMPQUA WATERSHEDS. FEBRUARY PRECIPITATION WAS 43% ABOVE AVERAGE INCREASING THE SNOWPACK TO ABOVE NORMAL CONDITIONS IN ALL AREAS OF THE BASIN. RESERVOIR STORAGE IS ABOVE AVERAGE FOR MARCH 1.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek	Average	Average
Applegate River, Big	Average	Average
Applegate River, Little	Average	Average
Ashland Creek	Average	Average
Butte Creek, Big	Excellent	Excellent
Butte Creek, Little	Excellent	Excellent
Cow Creek	Average	Average
Deer Creek	Average	Average
Elk Creek	Average	Average
Emigrant Creek (abv. res.)	Average	Average
Evans Creek	Average	Average
Gold Hill Irrigation Dist.	Average	Average
Grants Pass Irrig. Dist.	Average	Average
Grave Creek	Average	Average
Illinois River, East Fork	Average	Average
Illinois River, West Fork	Average	Average
Jump-off-Joe Creek	Average	Average
Neil Creek	Average	Average
Red Blanket Creek	Excellent	Excellent
Rogue River	Average	Average
Sucker Creek	Average	Average
Table Rock Irrig. Dist.	Excellent	Average
Thompson Creek	Excellent	Average
Wagner Creek	Average	Average
Williams Creek	Average	Average



WATERSHED LOCATION

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STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Applegate near Copper	120	90	Apr.-Sept.		133
Clearwater above Trap Creek ^d	83	120	Apr.-Sept.		69
Fourmile Lake net Inflow ^d	5.6	130	Apr.-Sept.		4.3
Hyatt Reservoir net Inflow ^d	4.8	104	Apr.-July		4.6
Illinois River near Kerby	180	94	Apr.-July		191
	186	94	Apr.-Sept.		197
Little Butte, N. Fk. at Fish Lake nr. Lake Cr. ^d	17.1	125	Apr.-Sept.		13.7
Little Butte, S. Fk. near Lake Creek	37	132	Apr.-July		28
Rogue above Prospect	302	118	Apr.-July		256
	363	117	Apr.-Sept.		311
Rogue, South Fork near Prospect ^d	75	124	Apr.-July		61
	87	121	Apr.-Sept.		72
Rogue at Raygold near Central Point	832	113	Apr.-July	1119	735
	995	112	Apr.-Sept.	1305	890
Rogue at Grants Pass	979	110	Apr.-Sept.		890
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls ^d	176	106	Apr.-Sept.		166

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork	100	June 5	May 27
Rogue at Raygold	1200 *2170 *1320	Sept. 6 July 1 Aug. 15	Aug. 7
*Average daily cfs forecast to flow on this date.			

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Emigrant Lake	39.0	29.4	32.0	28.5*
Fish Lake	8.0	7.7	5.1	5.5
Fourmile Lake	16.1	11.8	--	8.7
Howard Prairie	60.0	39.6	60.6	35.9 ^m
Hyatt Prairie	16.1	11.6	13.5	11.3
*Average for years of record (in base period) after reconstruction.				

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Applegate	3	90	110
Bear Creek	2	84	130
Butte Creek	4	110	166
Illinois River	3	102	102
North Umpqua	3	96	151
Rogue River	5	98	144

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

KLAMATH WATERSHEDS

OREGON

as of

MARCH 1, 1975

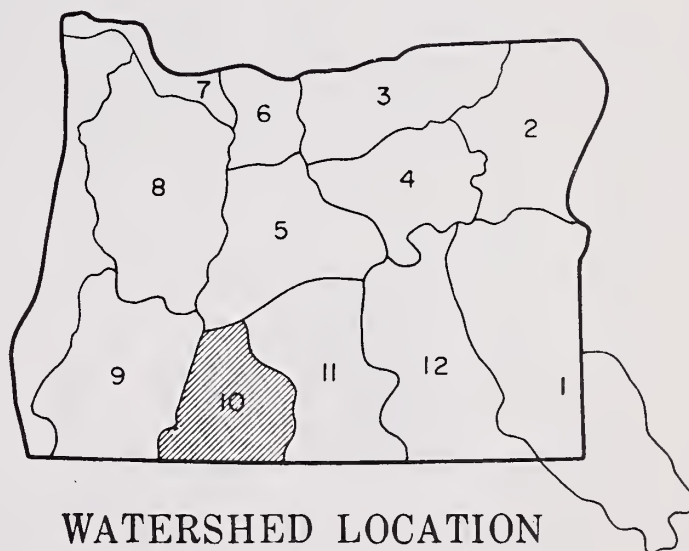
GENERAL OUTLOOK

HEAVY FEBRUARY PRECIPITATION INCREASED THE WATER SUPPLY OUTLOOK TO ABOVE AVERAGE IN ALL OF THE KLAMATH WATERSHEDS. LAST MONTH THE PRECIPITATION WAS 86% ABOVE NORMAL INCREASING THE SNOWPACK TO MORE THAN 40% ABOVE AVERAGE. THE SOIL MOISTURE INCREASED SOMEWHAT AND RESERVOIR STORAGE IS NEAR NORMAL.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley	Average	Average
Lost River (Clear Lake)	Average	Average
Lost River (Gerber)	Average	Average
Lost River (Willow Res.)	Average	Average
Sprague River	Average	Average
Upper Klamath Lake	Average	Average
Williamson River	Average	Average



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Clear Lake Reservoir Inflow ^k	97	145	Mar.-July		67
Gerber Reservoir Inflow ^k	47	150	Mar.-July		31
Sprague near Chiloquin	290	107	Mar.-July		271
	658	104	Mar.-July	950	634
Upper Klamath Lake net Inflow ^k	620	116	Apr.-Sept.	771	536
	478	105	Mar.-July		454
Williamson below Sprague River	470	114	Apr.-Sept.		414

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Upper Klamath	1	78	87

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Clear Lake	440.2	288.6	298.6	227.1
Gerber	94.0	46.3	56.9	53.5
Upper Klamath Lake	584.0	362.3	482.0	422.6

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Lost River	4	175	184
Sprague River	3	114	132
Upper Klamath	7	104	133
Williamson River	3	106	150

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
LAKE COUNTY, GOOSE LAKE WATERSHEDS
OREGON

as of
MARCH 1, 1975

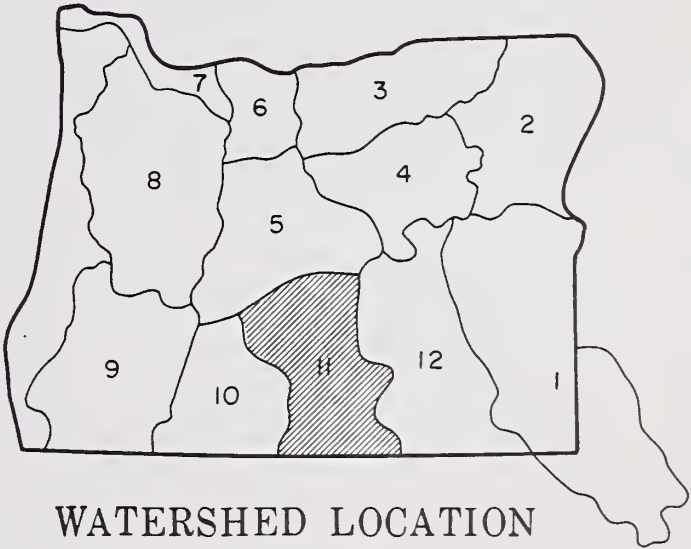
GENERAL OUTLOOK

NEARLY TWICE THE NORMAL AMOUNT OF PRECIPITATION FELL DURING FEBRUARY AND THE SNOWPACK IS NOW 1-1/2 TIMES THE MARCH 1 AVERAGE. ALTHOUGH RESERVOIR STORAGE IS STILL BELOW AVERAGE, ADEQUATE WATER SUPPLIES SHOULD BE AVAILABLE DURING THE SPRING AND SUMMER MONTHS.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River	Average	Average
Crooked Creek	Average	Average
Deep Creek	Average	Average
Dry Creek	Average	Average
East Side Goose Lake	Average	Average
Guano Lake	Average	Average
Honey Creek	Average	Average
Lakeview Water Users Assn.	Average	Average
Rock Creek (Hart Mountain)	Average	Average
Silver-Buck Creeks	Average	Average
Summer Lake	Average	Average
Thomas Creek	Average	Average
Twentymile Creek	Average	Average
Warner Lakes	Average	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Chewaucan near Paisley	94	108	Mar.-July	145	87
Deep above Adel	85	109	Mar.-July		78
Drews Reservoir net Inflow ^d	45	110	Mar.-July		41
Honey Creek near Plush	22	110	Mar.-July		20
Twentymile near Adel	27	105	Mar.-July		26

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Chewaucan, Silver Creek, Drew Creek	1	78	87
Honey, Deep, 20-Mi. Cr.	1	89	91

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Cottonwood	8.7	1.3	5.9	4.0*
Drews	63.0	32.3	51.1	39.8
*Average for years of record (in base period) after reconstruction.				

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Chewaucan River	3	114	132
Deep Creek	3	134	162
Drew Creek	3	207	173
Honey Creek	3	124	138
Silver Creek	3	214	182
Twentymile Creek	3	111	148

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
HARNEY BASIN WATERSHEDS
OREGON
as of

MARCH 1, 1975

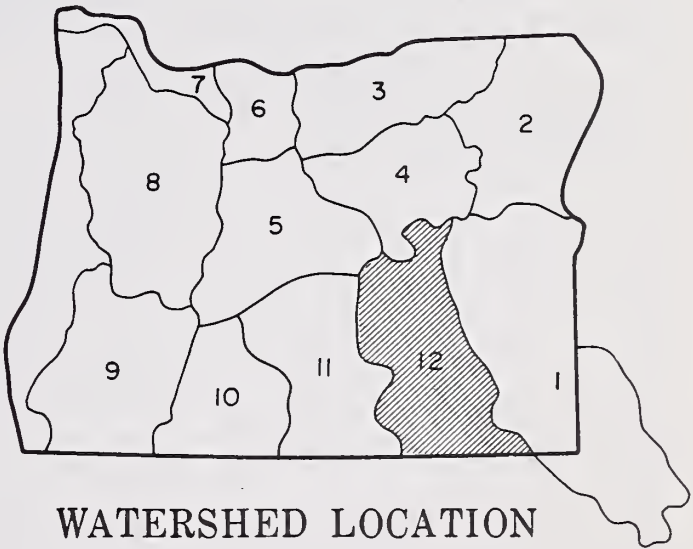
GENERAL OUTLOOK

AVERAGE TO ABOVE AVERAGE WATER SUPPLIES ARE FORECAST FOR THE HARNEY BASIN. THE SNOWPACK VARIES FROM 25% ABOVE AVERAGE ON THE SILVER CREEK WATERSHED TO 150% OF AVERAGE ON TROUT CREEK. PRECIPITATION DURING FEBRUARY WAS NEARLY TWICE THE NORMAL FOR THE MONTH. THE SOIL MOISTURE HAS INCREASED TO NEAR AVERAGE IN THE SOUTHERN PORTION OF THE COUNTY.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley	Average	Average
Cow Creek	Average	Average
Donner und Blitzen River	Average	Average
Mill-Coffeepot Creeks	Average	Average
Rattlesnake Creek	Average	Average
Silver Creek	Average	Average
Silvies River	Excellent	Average
Soldier-Prather Creek	Average	Average
Trout Creek	Average	Average
Whitehorse Creek	Average	Average



U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
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1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Donner und Blitzen near Frenchglen	66	120	Mar.-July		55
	63	119	Apr.-Sept.		53
Silver near Riley	17.5	112	Apr.-July		15.6
Silvies River near Burns	113	120	Mar.-July		94
	92	123	Apr.-Sept.		74
Trout Creek near Denio	8.0	95	Mar.-July		8.4
	7.8	99	Apr.-Sept.		7.9

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Silvies River, Silver Cr.	3	78	88
Trout Cr., Donner und Blitzen River	1	85	102

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Donner und Blitzen R.	4	140	143
Silver Creek	3	133	124
Silvies River	4	98	145
Trout Creek	3	94	148

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 1

MARCH 1, 1975

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave†
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)		b		10.2	6.1 ^h
Battle Creek (Ida.) ^e	2/22	21	6.5	7.2	2.9
Bear Creek (Nev.)	2/25	73	24.3	17.8	17.3
Big Bend (Nev.)	3/5	35	11.4	11.4	7.6
Blue Mountain Springs	2/25	56	16.7	23.2	14.1
Blue Mtn. Springs Pillow*	2/25	49	14.7	15.6	--
Buck Pasture ^e	2/22	14	4.3	3.0	2.1 ^m
Buckskin, Lower (Nev.)	2/24	39	11.6	9.6	7.4
Buckskin, Upper (Nev.)	2/24	43	15.9	9.6	8.7
Bull Basin ^e (Ida.)	2/22	12	3.7	3.0	1.1 ^m
Bully Creek ^e	2/22	12	3.6	2.5	2.5
Call Meadow ^e	2/22	24	7.2	5.7	4.0 ^m
Columbia Basin (Nev.)	2/25	32	10.9	14.4	8.1 ^h
Cottonwood-Indian ^e	2/22	6	1.8	T	0.8
Crane Prairie	2/25	43	13.1	13.4	8.6
Disaster Peak (Nev.)	2/24	56	18.0	14.1	13.4
Eldorado Pass	2/27	24	6.6	2.4	2.8
Fawn Creek ^e (Nev.)	2/25	24	7.0	6.3	4.4 ^h
Fish Creek ^e	3/1	63	19.2	20.7	21.1 ^h
Fish Creek Pillow*	3/1	--	32.6	29.1	--
Flag Prairie ^e	2/22	32	9.6	6.3	4.2 ^m
Fox Creek (Nev.)	2/25	49	14.6	11.0	9.0
Fry Canyon (Nev.)	3/5	30	10.2	9.8	6.3 ^h
Gold Creek (Nev.)	3/5	24	7.2	7.5	4.9
Granite Peak (Nev.)	2/25	39	12.5	11.8	13.2
Hyde Pasture ^e (Ida.)	2/22	34	10.5	10.8	4.9
Jack Creek, Lower (Nev.)	3/5	20	6.7	--	--
Jack Creek, Upper (Nev.)	2/25	31	9.3	7.4	7.7
Jack Peak (Nev.)		b		--	--
Lake Creek R. S.	2/25	44	13.0	14.0	9.1
Laurel Draw (Nev.)	2/25	40	11.7	10.5	6.4 ^h
Logan Valley ^e	2/22	41	12.3	8.4	7.4 ^h
Lookout Butte ^e	2/22	T	T	1.2	0.2 ^m
Louse Canyon ^e	2/22	36	11.5	10.8	2.8 ^m
Martin Creek (Nev.)	2/25	41	12.8	9.0	8.9
Merritt Mountain ^e (Nev.)	2/25	30	9.3	7.0	5.8 ^h
Midas (Nev.)	2/25	10	3.3	3.2	3.3
Mud Flat (Ida.)		b		7.3	5.4
Oregon Canyon ^e	2/22	14	4.5	6.3	4.8 ^m
Quinn Ridge ^e (Nev.)	2/22	21	6.7	1.2	1.8 ^m
Red Canyon ^e (Ida.)	2/22	36	11.2	10.8	5.9 ^m
Rock Spring	2/26	29	8.1	6.2	4.9
Rodeo Flat (Nev.)	3/5	27	9.1	6.5	4.9
76 Creek (Nev.)	2/25	48	15.4	14.8	10.0
Silver City (Ida.)	2/25	55	17.2	16.6	13.8
Silvies ^e	3/1	36	11.8	5.4	7.7 ^m
Silvies Pillow*	3/1	--	24.3	21.7	--
South Mountain #2 (Ida.)	2/25	45	13.8	16.2	11.3
Stag Mountain ^e (Nev.)	2/25	24	7.0	7.0	5.0 ^h
Stinking Water	2/26	25	7.9	1.8	1.9 ^h
Succor Creek ^e (Ida.)	2/22	27	8.4	8.4	5.4 ^m
Taylor Canyon (Nev.)	3/5	26	8.3	6.7	4.1
Toe Jam ^e (Nev.)	2/25	39	12.5	9.9	7.9 ^h
Tremewan Ranch (Nev.)	2/26	7	2.3	2.0	1.2
Triangle (Ida.)	2/22	8	2.5	3.0	0.6
Trout Creek ^e	2/22	36	11.5	10.8	6.4 ^m
"V" Lake ^e	2/22	42	13.0	9.3	4.9 ^m
Vaught Ranch ^e (Ida.)	2/22	27	8.4	8.4	3.3 ^m
War Eagle ^e (Ida.)	2/22	60	18.6	21.0	22.1 ^m

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1	2/25	94	33.2	49.6	31.4
Aneroid Lake #2	2/25	82	29.2	43.4	27.9 ^h
Anthony Lake	2/26	75	27.8	30.1	22.4
Bald Mountain (Ore.)	2/25	69	24.8	27.9	20.1 ^m
Beaver Reservoir	2/27	44	12.5	16.0	11.0
Big Sheep ^e	2/25	81	29.2	39.6	23.1 ^m
Blue Mtn. Summit	2/25	39	11.0	10.7	7.7
Bourne	2/25	54	16.7	20.8	14.1
County Line	2/27	21	7.5	6.3	4.5
Dooley Mountain	2/24	36	9.8	11.7	8.1
Eilertson Meadows	2/25	42	13.4	16.0	10.1
Eldorado Pass	2/27	24	6.6	2.4	2.8
Gold Center	2/25	46	14.3	16.9	11.7 ^h
Goodrich Lake	2/25	81	30.9	61.5	35.4 ^h
Intake House	2/25	43	12.6	15.7	10.4 ^h
Little Alps	2/26	48	15.0	17.5	11.8 ^h
Little Antone	2/26	38	10.6	7.8	7.2 ^m
Lucky Strike	2/26	36	10.8	12.4	11.0
Lucky Strike Pillow*	2/26	--	13.8	15.0	--
Meacham	2/27	38	13.8	19.4	8.1
Mirror Lake ^e	2/25	175	61.2	99.5	59.0 ^m
Moss Springs	2/26	78	27.8	28.4	19.9
Power Plant	2/25	31	8.6	6.5	5.4 ^h
Schneider Meadow	2/25	88	29.1	43.5	27.3
Schoolmarm	2/27	17	5.1	4.4	3.7
Standley ^e	2/25	83	29.8	42.8	25.6 ^m
Taylor Green	2/26	57	18.6	20.4	14.7 ^h
Tipton	2/25	42	12.9	15.7	9.4
Tipton Snow Pillow*	2/25	52	15.0	19.5	--
Tollgate	2/25	74	22.9	42.4	21.4
TV Ridge ^e	2/25	60	21.6	22.4	18.2 ^m
UMATILLA, WALLA, WILLOW, ROCK LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	2/24	33	10.0	13.5	9.2
Arbuckle Mtn. Pillow*	2/24	--	23.3	25.8	--
Battle Mountain Summit	2/27	15	4.8	2.6	2.0 ^h
Blue Mountain Camp	2/25	47	14.8	31.4	12.6 ^h
Butte Creek Summit	3/1	00	0	1.5	--
Emigrant Springs	2/27	21	7.1	11.4	4.0
High Ridge Pillow*	2/28	91	28.4	--	--
Lucky Strike	2/26	36	10.8	12.4	11.0
Lucky Strike Pillow*	2/26	--	13.8	15.0	--
Meacham	2/27	38	13.8	19.4	8.1
Tollgate	2/25	74	22.9	42.4	21.4

BASIC DATA SUPPLEMENT 1

MARCH 1, 1975

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

UPPER JOHN DAY WATERSHEDS					
Anthony Lake	2/26	75	27.8	30.1	22.4
Arbuckle Mountain	2/24	33	10.0	13.5	9.2
Arbuckle Mt. Pillow*	2/24	--	23.3	25.8	--
Battle Mountain Summit	2/27	15	4.8	2.6	2.0 ^h
Blue Mountain Springs	2/25	56	16.7	23.2	14.1
Blue Mt. Springs Pillow*	2/25	49	14.7	15.6	--
Blue Mountain Summit	2/25	39	11.0	10.7	7.7
Butte Creek Summit	3/1	0	0	1.5	--
Derr	2/26	37	11.0	12.5	8.5
Gold Center	2/25	46	14.3	16.9	11.7
Indian Creek Butte ^e	2/22	84	25.2	31.6	20.8 ^m
Izee Summit	2/26	35	10.7	8.8	7.0
Lucky Strike	2/26	36	10.8	12.4	11.0
Lucky Strike Pillow*	2/26	--	13.8	15.0	--
Marks Creek	2/26	18	5.4	2.8	2.9
Ochoco Meadows	2/28	37	12.7	12.2	8.1
Olive Lake	2/24	53	16.4	23.5	17.6 ^h
Schoolmarm	2/27	17	5.1	4.4	3.7
Snow Mountain	2/26	48	13.0	12.9	11.9 ^h
Snow Mt. Pillow**		b		9.8	--
Starr Ridge	2/26	32	9.2	7.9	4.9
Tipton	2/25	42	12.9	15.7	9.4
Tipton Snow Pillow*	2/25	52	15.0	19.5	--

UPPER DESCHUTES, CROOKED WATERSHEDS

Bald Peter	2/26	100	37.8	--	--
Caldwell Ranch	2/28	35	12.0	13.7	8.6 ^h
Cascade Summit	2/27	84	31.0	39.6	23.6
Chemult	2/26	39	12.1	10.8	8.9
Chemult Alternate	2/26	45	14.2	13.0	--
Derr	2/26	37	11.0	12.5	8.5
Hogg Pass	2/27	93	39.9	55.7	33.2
Hungry Flat	2/26	29	10.6	7.1	4.6
Irish-Taylor Pillow**	3/1	--	41.8	50.0	32.6 ^h
Lionshead	2/26	18	5.4	--	--
Marks Creek	2/26	18	5.4	2.8	2.9
New Crescent Lake	2/25	50	17.1	20.7	11.8
New Dutchman Flat #2	2/26	131	54.0	58.3	43.4
Ochoco Meadows	2/28	37	12.7	12.2	8.1
Racing Creek	2/26	53	17.0	21.2	--
Snow Mountain	2/26	48	13.0	12.9	11.9 ^h
Snow Mt. Pillow**	2/26	44	12.6	9.8	--
Summit Lake	2/25	120	42.3	52.0	32.6 ^h
Summit Lake Pillow**	2/26	--	38.8	--	--
Tamarack	2/27	27	8.2	6.4	4.5
Tangent	2/26	70	25.6	36.4	20.0
Three Creek Butte	2/26	35	12.5	16.1	9.0
Three Creek Meadow	2/26	56	21.0	25.2	15.6
Three Creek Mdw. Pillow**		b	--	--	--
Waldo Lake	2/28	89	33.9	39.9	23.3 ^h
Whitewater Meadow ^e			--	--	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadows	2/27	40	14.6	13.8	9.6 ^h
Clear Lake	2/25	27	8.5	15.5	7.8
Clear Lake (Experimental)	2/25	47	16.9	24.6	12.3
Cooper Spur	3/1	40	18.8	20.2	10.6 ^h
Greenpoint	3/2	32	12.1	28.3	13.6
Knebal Springs	2/27	35	11.9	10.2	6.7 ^h
Mt. Hood Test Site	2/24	150	55.9	--	52.3
Red Hill	2/23	75	29.7	64.5	31.6
Still Creek	2/26	58	22.2	39.2	18.3
Still Creek Alt. #2	2/26	66	25.7	38.5	--
Switchback	2/23	34	12.4	25.6	10.7 ^h
Tilly Jane	2/26	93	38.0	56.9	33.7
Ulrich Ranch Junction	2/27	14	4.3	6.4	3.6 ^h
Umbrella Falls	3/1	151	63.2	85.9	56.7 ^h

WILLAMETTE WATERSHEDS

Cascade Summit	2/27	84	31.0	39.6	23.6
Champion	2/27	76	30.9	50.1	23.2 ^h
Clackamas Lake	2/28	24	8.7	18.1	10.3
Clear Lake	2/25	27	8.5	15.5	7.8
Clear Lake (Expt.)	2/25	47	16.9	24.6	12.3
Dead Horse Grade	2/27	43	17.6	21.2	13.5
Detroit (Town)	2/27	0	0	1.7	0.9
Detroit Dam	2/27	0	0	T	0.5
Golden Curry Creek	2/27	T	T	7.2	5.2
Hogg Pass	2/27	93	39.9	55.7	33.2
Lake Harriet	2/26	8	1.6	0.2	2.3 ^m
Laurel Mountain	2/28	6	4.0	14.6	--
Layng Creek	2/27	0	0	T	0.1
Lookout Point Dam		b		0.0	0.0
Lost Creek Ranch		b		2.1	3.6
Lund Park	2/27	0	0	0.2	0.5
Marion Forks	2/27	22	8.2	20.7	10.8 ^h
Marys Peak	2/27	13	6.2	9.9	10.0 ^m
McCredie Springs		b		T	0.4
McKenzie	2/27	105	48.9	62.6	36.2
McKenzie Bridge	2/27	38	13.8	0	0.6
Mill City	2/27	0	0	0	0.1
Mt. Hood Test Site**	2/24	150	55.9	--	52.3
Oakridge		b		0	0
Peavine Ridge Pillow**	3/1	--	13.1	27.2	13.1 ^h
Railroad Overpass	2/27	0	0	2.0	1.9
Saddle Mountain Pillow**	3/1	--	6.6	9.5	--
Salt Creek Falls	2/27	41	15.3	21.7	12.3
Santiam Junction	2/27	58	23.8	37.6	19.2
Seine Creek Pillow**	3/1	--	2.4	2.9	--
Still Creek	2/26	58	22.2	39.2	18.3
Summit Lake	2/25	120	42.3	52.0	32.6 ^h
Summit Lake Pillow**	2/26	--	38.8	--	--
Timothy Lake	2/26	36	12.6	26.8	12.8 ^m
Valsetz Summit	2/28	0	0	4.6	--
Vida		b		0.0	00.1
Waldo Lake	2/28	89	33.9	39.9	23.3 ^h
Weaver Creek	2/27	0	0	1.2	0.7 ^m
White Branch Slide	2/27	27	12.0	7.5	5.6
Whitewater Bridge	2/27	4	1.1	4.4	3.9

BASIC DATA SUPPLEMENT 1

MARCH 1, 1975

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave†
ROGUE, UMPQUA WATERSHEDS					
Althouse	2/27	21	8.1	7.2	6.5
Annie Spring	2/28	111	43.1	58.1	36.3
Beaver Dam Creek	2/28	48	19.5	13.8	11.5
Big Red Mountain	2/24	94	29.6	36.5	26.4
Billie Creek Divide	2/26	74	28.7	25.0	17.9
Caliban	2/26	99	32.2	49.3	29.5
Caliban (Alternate)	2/26	100	25.2	45.8	--
Champion	2/27	76	30.9	50.1	23.2
Cold Springs Camp	2/26	106	36.9	45.0	28.2
Cold Spgs. Camp Pillow**		b		--	--
Deadwood Junction	2/28	39	14.0	8.1	8.1
Diamond-Crater Sum.	2/25	101	35.1	41.8	25.8
Diamond Lake	2/25	72	24.6	27.9	17.2
Fish Lake	2/27	51	19.2	18.3	11.5
Fourmile Lake	2/26	67	24.4	--	21.3
Grayback Peak	2/24	80	21.1	22.2	22.7
Howard Prairie Reservoir	2/28	38	13.3	9.6	7.8
Hyatt Prairie	2/28	30	12.0	9.1	7.0
King Mountain #1	2/26	34	14.2	7.0	8.1
King Mountain #2	2/26	23	8.9	5.0	5.8
King Mountain #3	2/26	3	1.2	1.6	1.9
King Mountain #4	2/26	0	0	T	0
King Mountain #5	2/26	0	0	T	0
King Mountain #6	2/26	0	0	0	0
Little Red Mountain	2/24	81	27.4	27.8	21.6
Mt. Ashland Switchback	2/27	96	31.3	48.0	28.2
Mule Creek		b		6.7	--
North Umpqua	2/28	46	20.2	22.3	11.5
Page Mountain	2/27	10	4.1	3.4	3.6
Park Headquarters	2/28	147	60.3	80.5	48.6
Red Butte #1	2/26	37	15.0	22.2	11.0
Red Butte #2	2/26	30	11.8	11.5	7.2
Red Butte #3	2/26	10	3.8	6.3	7.2
Red Butte #4	2/26	0	0	1.5	2.4
Red Butte #5	2/26	0	0	0	0.5
Red Butte #6	2/26	0	0	0	0.2
Seven Mile	2/24	95	31.7	37.0	--
Silver Burn	2/27	43	18.4	15.9	10.9
Siskiyou Summit	2/27	36	13.4	5.2	6.3
Ski Bowl Road	2/27	90	28.4	33.4	24.0
South Fork Canal		b		0	2.0
Trap Creek	2/28	43	18.7	20.7	9.2
Whaleback	2/28	96	35.9	34.1	26.4

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†
KLAMATH WATERSHEDS					
Annie Spring	2/28	111	43.1	58.1	36.3
Billie Creek Divide	2/26	74	28.7	25.0	17.9
Chemult	2/26	39	12.1	10.8	8.9
Chemult (Alternate)	2/26	45	14.2	13.0	--
Chiloquin ^e (PP&L)	2/28	6	2.4	T	1.0
Cold Springs Camp	2/26	106	36.9	45.0	28.2 ^h
Cold Spgs. Camp Pillow**		b		--	--
Crazyman Flat	2/24	36	11.2	10.0	8.5
Crowder Flat (Calif.)	2/24	22	7.5	0.8	2.1
Crystal (PP&L)	2/26	36	16.0	6.9	7.2
Diamond-Crater Sum	2/25	101	35.1	41.8	25.8 ^h
Diamond Lake Junction (97)	2/25	26	8.4	5.8	5.6
Dog Hollow ^e	2/24	12	3.8	0.8	0.5
Finley Corrals ^e	2/25	52	16.1	17.0	14.2
Fort Klamath (PP&L) ^e	2/28	22	9.7	2.4	2.9
Fourmile Lake	2/26	67	24.4	--	21.3 ^h
Gerber	3/3	13	5.0	2.2	1.9 ^h
Harriman (PP&L)	2/28	27	11.9	4.5	3.3 ^m
Howard Prairie	2/28	38	13.3	9.6	7.8 ^h
Hyatt Prairie Reservoir	2/28	30	12.0	9.1	7.0
Kirk (PP&L)		b		--	5.2 ^m
Park Headquarters	2/28	147	60.3	80.5	48.6
Quartz Mountain	2/27	33	10.1	2.0	5.6
Seven Mile	2/24	95	31.7	37.0	--
State Line ^e (Calif.)	2/24	42	14.3	8.4	7.5
Strawberry ^e	2/23	36	9.6	6.6	6.4 ^h
Summer Rim ^e	2/25	48	15.0	16.2	13.2 ^m
Summer Rim Pillow*	2/27	51	16.7	20.0	--
Sycan Flat ^e	2/25	36	11.2	4.5	6.2
Taylor Butte	2/27	22	7.0	4.4	4.4
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)	2/26	52	15.4	15.0	10.9
Bald Mountain (Nev.)	3/3	14	3.8	2.5	3.4
Bear Flat Meadow	2/25	36	11.5	8.6	9.1
Camas Creek	2/27	42	13.5	8.2	9.2
Cedar Pass (Calif.)	2/25	58	19.9	15.0	13.1
Colvin Creek ^e	2/25	22	7.0	4.5	4.6 ^m
Cox Flat	2/25	46	14.7	5.4	6.8
Crowder Flat (Calif.)	2/24	22	7.5	0.8	2.1
Dismal Swamp (Calif.)	2/25	60	20.4	18.6	14.1
Finley Corrals	2/25	52	16.1	17.0	14.2
Hart Mountain	2/25	14	4.5	1.2	1.5
Little Bally Mtn. (Nev.)	2/25	18	5.8	4.5	2.3 ^m
Mt. Bidwell (Calif.)	2/26	66	22.6	--	--
North Star (Calif.)	2/26	57	18.6	--	--
Patton Meadows	2/24	54	17.3	17.8	15.0 ^m
Quartz Mountain	2/27	30	10.1	2.0	5.6
Sherman Valley ^e	2/25	46	14.7	15.3	10.5
Silver Creek	2/27	16	4.9	1.9	2.1
State Line (Calif.)	2/24	42	14.3	8.4	7.5
Strawberry ^e	2/23	36	9.6	6.6	6.4 ^h
Summer Rim ^e	2/25	48	15.0	16.2	13.2 ^m
Summer Rim Pillow*	2/27	51	16.7	20.0	--
Sycan Flat ^e	2/25	36	11.2	4.5	6.2
Willow Creek	2/25	21	6.7	6.7	3.3

BASIC DATA SUPPLEMENT 1

MARCH 1, 1975

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

HARNEY BASIN WATERSHEDS

Blue Mountain Springs	2/25	56	16.7	23.2	14.1
Blue Mtn. Springs Pillow*	2/25	49	14.7	15.6	--
Buck Pasture	2/22	14	4.3	3.0	2.1 ^m
Buckskin Lake	2/22	T	T	1.2	0.3 ^m
Call Meadows	2/22	24	7.2	5.7	4.0 ^m
Delintment Lake	2/26	33	8.6	6.2	6.6 ^h
Denio Creek	2/22	4	1.3	1.2	0.5 ^m
Disaster Peak (Nev.)	2/24	56	18.0	--	--
Emigrant Butte	2/27	24	6.3	1.8	3.9 ^h
Fish Creek ^e	3/1	63	19.2	20.7	21.1 ^h
Fish Creek Pillow*	2/22	69	21.4	29.1	--
Hart Mountain	2/25	14	4.5	1.2	1.5
Idlewild Camp	2/27	28	7.2	7.3	4.8
Idlewild Camp Alternate	2/27	21	5.2	6.7	--
Izee Summit	2/26	35	10.7	8.8	7.0
Lake Creek R.S.	2/25	44	13.0	14.0	9.1
Oregon Canyon	2/22	14	4.5	6.3	4.8 ^m
Rock Spring	2/26	29	8.1	6.2	4.9
Silvies ^e	3/1	36	11.8	5.4	7.7 ^m
Silvies Pillow*	3/1	--	24.3	21.7	--
Snow Mountain	2/26	48	13.0	12.9	11.9 ^h
Snow Mountain Pillow**	2/26	44	12.6	9.8	--
Starr Ridge	2/26	32	9.2	7.6	4.9
Stinking Water	2/26	25	7.9	1.8	1.9 ^h
Trout Creek	2/22	36	11.5	10.8	6.4 ^m
"V" Lake ^e	2/22	42	13.0	9.3	4.9 ^m

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 2

MARCH 1, 1975

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	2/25	9.3	10.7	11.5
Big Bend (Nev.)	6700	48	16.7		b	15.4	15.0
Blue Mountain Spring	5900	42	16.9	2/25	7.2	11.6	10.0
Mud Flat (Ida.)	5500	48	12.8		b	--	12.4 ^m
Rodeo Flat (Nev.)	6800	42	11.0		b	7.4	9.0
Taylor Canyon (Nev.)	6200	48	15.1		b	10.9	12.5
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	2/25	11.0	14.7	11.0 ^m
Dooley Mountain	5430	36	9.2	2/24	2.6	4.8	4.1 ^m
Emigrant Springs	3925	48	22.3	2/27	17.4	21.0	20.4 ^m
Ladd Summit	3730	48	18.9	2/27	9.8	13.9	11.2 ^m
Moss Springs	5850	36	25.8	2/26	13.7	14.8	15.0 ^m
Tollgate	5070	48	23.6	2/25	12.4	16.3	19.3 ^m
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	2/27	12.6	13.6	13.1 ^m
Emigrant Springs	3925	48	22.3	2/27	17.4	21.0	20.4 ^m
Tollgate	5070	48	23.6	2/25	12.4	16.3	19.3 ^m
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	2/27	12.6	13.6	13.1 ^m
Blue Mountain Spring	5900	42	16.9	2/25	7.2	11.6	10.0
Blue Mountain Summit	5100	36	16.8	2/25	11.0	14.7	11.0 ^m
Derr	5670	24	9.0	2/26	7.4	8.8	8.3 ^m
Marks Creek	4540	36	14.1	2/26	9.6	13.3	11.8 ^m
Snow Mountain	6300	48	16.7	2/26	11.6	15.2	13.7 ^m
Starr Ridge	5150	36	10.6	2/26	9.0	10.6	9.8 ^m
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	2/26	7.4	8.8	8.3 ^m
Marks Creek	4540	36	14.1	2/26	9.6	13.3	11.8 ^m
Snow Mountain	6300	48	16.7	2/26	11.6	15.2	13.7 ^m
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	2/27	7.5	9.6	8.6 ^m
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	2/27	11.4	12.8	12.5 ^m
Quartz Mountain	5230	48	15.3	2/27	7.5	9.6	8.6 ^m
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	2/25	7.2	11.6	10.0 ^m
Silvies	6900	48	16.4	3/1	13.7	16.2	13.4 ^m
Snow Mountain	6300	48	16.7	2/26	11.6	15.2	13.7 ^m
Starr Ridge	5150	36	10.6	2/26	9.0	10.6	9.8 ^m
Willow-Bald	5000	24	6.6	2/27	4.6	6.6	5.3 ^m

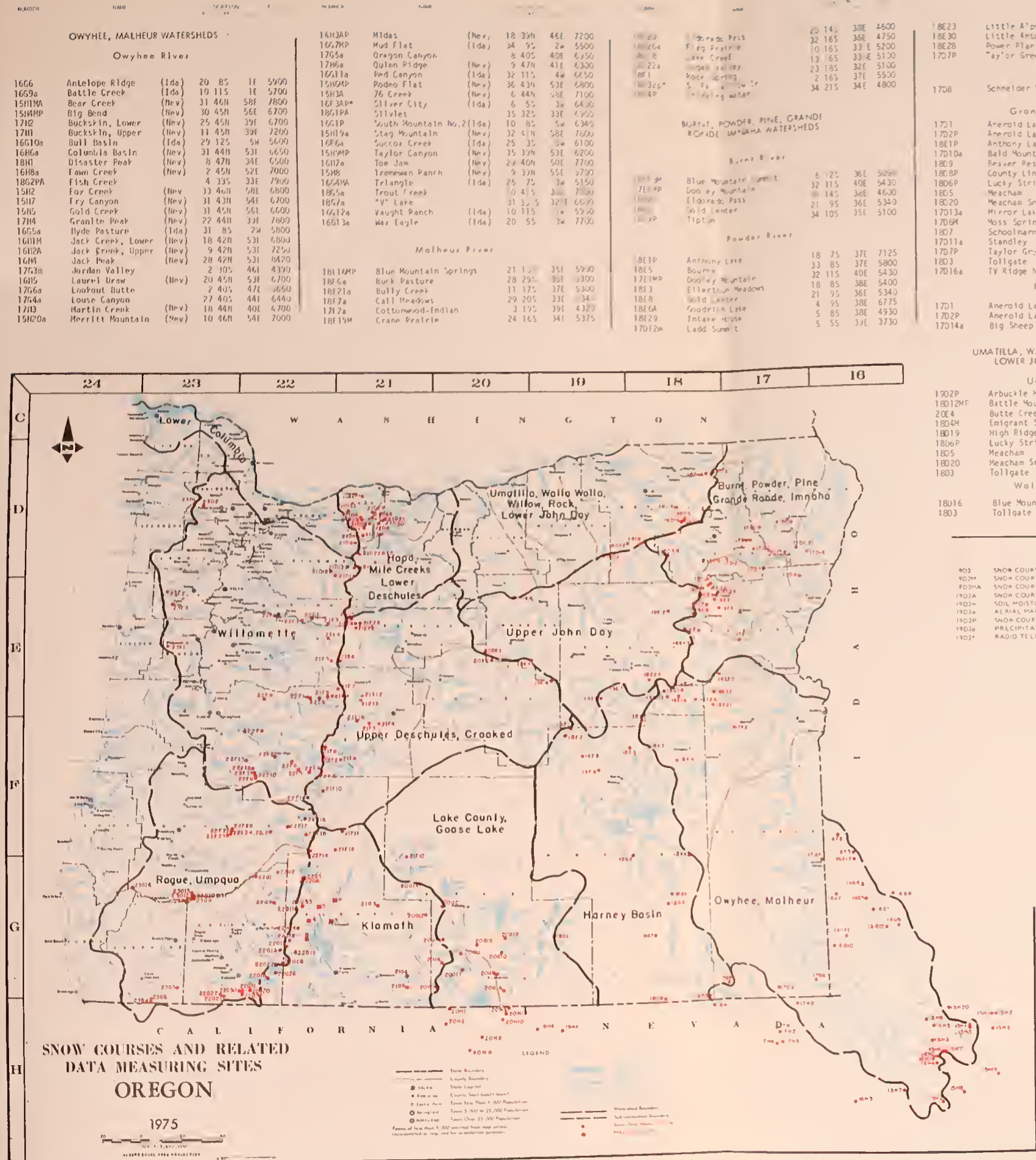
(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 3

MARCH 1, 1975

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION		CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average ⁺
Allison Work Center (Harney County)	5320	From 1/31 to 2/26	1.50		
Althouse (Josephine County)	4530	From 1/29 to 2/27	10.35		
Camas Creek (lake County)	5825	From 1/29 to 2/27	7.25		
Derr (Wheeler County)	5800	From 1/31 to 2/26	4.00		
Marks Creek (Crook-Wheeler Cos.)	4540	From 1/31 to 2/26	3.50		
Quartz Mt. Summit (Lake County)	6300	From 1/29 to 2/27	4.50		
Saddle Mountain (Washington County)	3250	From 2/1 to 3/1	19.10		
Seine Creek (Washington County)	2150	From 2/1 to 3/1	12.80		
<p>(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L CO. or USBR records. (m) Average for 5 or more years in base period.</p>					



UMATILLA, WALLA WALLA, WILLOW, ROCK,
LOWER JOHN DAY WATERSHEDS

1902P	Arbuckle Mountain	33	45	29	5400
18012MP	Battle Mountain Summit	29	35	31	4340
2064	Butte Creek Summit	5	85	22	3930
18044	Emigrant Springs	29	14	35	3925
18019	High Ridge Pillow	31	15	35	4150
1806P	Lucky Strike	24	15	35	4300
1805	Meacham	35	15	35	4150
18020	Meacham Snow Pillow	32	44	38	5070
1803	Tollgate	32	44	38	5070

18016	Blue Mountain Camp	35	44	37	4300
1803	Tollgate	32	44	38	5070

LEGEND

1902 SNOW COURSE ONLY
1903 SNOW COURSE AND SOIL MOISTURE
1904 SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
1905 SNOW COURSE AND AERIAL MARKER
1906 SOIL MOISTURE ONLY
1907 AERIAL MARKER ONLY
1908 SNOW COURSE AND PRECIPITATION GAGE
1909 PRECIPITATION GAGE ONLY
1910 RADIO TELEMETRY

WILLOW CREEK

1902P	Arbuckle Mountain	33	45	29	5400
18012MP	Battle Mountain Summit	29	35	31	4340
2064	Butte Creek Summit	5	85	22	3930
18044	Emigrant Springs	29	14	35	3925
18019	High Ridge Pillow	31	15	35	4150
1806P	Lucky Strike	24	15	35	4300
1805	Meacham	35	15	35	4150
18020	Meacham Snow Pillow	32	44	38	5070
1803	Tollgate	32	44	38	5070

PEPPER JOHN DAY WATERSHEDS

1902P	Arbuckle Mountain	33	45	29	5400
18012MP	Battle Mountain Summit	29	35	31	4340
2064	Butte Creek Summit	5	85	22	3930
18044	Emigrant Springs	29	14	35	3925
18019	High Ridge Pillow	31	15	35	4150
1806P	Lucky Strike	24	15	35	4300
1805	Meacham	35	15	35	4150
18020	Meacham Snow Pillow	32	44	38	5070
1803	Tollgate	32	44	38	5070

GRANDE RONDE RIVER

1701	Aneroid Lake No. 1	16	45	45	748
1702P	Aneroid Lake No. 2	16	45	45	7300
17014a	Big Sheep	33	45	46	6100

IMNHA RIVER

1701	Aneroid Lake No. 1	16	45	45	748
1702P	Aneroid Lake No. 2	16	45	45	7300
17014a	Big Sheep	33	45	46	6100

UPPER DESCHUTES CROOKED WATERSHEDS

1902P	Arbuckle Mountain	33	45	29	5400
18012MP	Battle Mountain Summit	29	35	31	4340
2064	Butte Creek Summit	5	85	22	3930
18044	Emigrant Springs	29	14	35	3925
18019	High Ridge Pillow	31	15	35	4150
1806P	Lucky Strike	24	15	35	4300
1805	Meacham	35	15	35	4150
18020	Meacham Snow Pillow	32	44	38	5070
1803	Tollgate	32	44	38	5070

WALLA WALLA RIVER

18016	Blue Mountain Camp	35	44	37	4300
1803	Tollgate	32	44	38	5070

HOOD, MILE CREEKS, LOWER JOHN DAY WATERSHEDS

1902P	Arbuckle Mountain	33	45	29	5400
18012MP	Battle Mountain Summit	29	35	31	4340
2064	Butte Creek Summit	5	85	22	3930
18044	Emigrant Springs	29	14	35	3925
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1806P	Lucky Strike	24	15	35	4300
1805	Meacham	35	15	35	4150
18020	Meacham Snow Pillow	32	44	38	5070
1803	Tollgate	32	44	38	5070

WALLA WALLA RIVER

18016	Blue Mountain Camp	35	44	37	4300
1803	Tollgate	32	44	38	5070

LEGEND

1902 SNOW COURSE ONLY
1903 SNOW COURSE AND SOIL MOISTURE
1904 SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
1905 SNOW COURSE AND AERIAL MARKER
1906 SOIL MOISTURE ONLY
1907 AERIAL MARKER ONLY
1908 SNOW COURSE AND PRECIPITATION GAGE
1909 PRECIPITATION GAGE ONLY
1910 RADIO TELEMETRY

HOOD, MILE CREEKS, LOWER JOHN DAY WATERSHEDS

1902P	Arbuckle Mountain	33	45	29	5400
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WALLA WALLA RIVER

18016	Blue Mountain Camp	35	44	37	4300
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LEGEND

1902 SNOW COURSE ONLY
1903 SNOW COURSE AND SOIL MOISTURE
1904 SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
1905 SNOW COURSE AND AERIAL MARKER
1906 SOIL MOISTURE ONLY
1907 AERIAL MARKER ONLY
1908 SNOW COURSE AND PRECIPITATION GAGE
1909 PRECIPITATION GAGE ONLY
1910 RADIO TELEMETRY

HOOD, MILE CREEKS, LOWER JOHN DAY WATERSHEDS

1902P	Arbuckle Mountain	33	45	29	5400
18012MP	Battle Mountain Summit	29	35	31	4340
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WALLA WALLA RIVER

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LEGEND

1902 SNOW COURSE ONLY
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HOOD, MILE CREEKS, LOWER JOHN DAY WATERSHEDS

1902P	Arbuckle Mountain	33	45	29	5400
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1805	Meacham	35	15	35	4150
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WALLA WALLA RIVER

18016	Blue Mountain Camp	35	44	37	4300
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LEGEND

1902 SNOW COURSE ONLY
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1904 SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
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1908 SNOW COURSE AND PRECIPITATION GAGE
1909 PRECIPITATION GAGE ONLY
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HOOD, MILE CREEKS, LOWER JOHN DAY WATERSHEDS

1902P	Arbuckle Mountain	33	45	29	5400
18012MP	Battle Mountain Summit	29	35	31	4340
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WALLA WALLA RIVER

18016	Blue Mountain Camp	35	44	37	4300
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LEGEND

1902 SNOW COURSE ONLY
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WILLOW CREEK

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18012MP	Battle Mountain Summit	29	35	31	4340
2064	Butte Creek Summit	5	85	22	3930
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18019	High Ridge Pillow	31	15	35	4150
1806P	Lucky Strike	24	15	35	4300
1805	Meacham	35	15	35	4150
18020	Meacham Snow Pillow	32	44	38	5070
1803	Tollgate	32	44	38	5070

PEPPER JOHN DAY WATERSHEDS

1902P	Arbuckle Mountain	33	45
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The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

COUNTY

- Douglas County Water Resources Survey

FEDERAL

- Department of Agriculture
 - Cooperative Extension Service
 - Forest Service
 - Soil Conservation Service
- Department of Commerce
 - NOAA, National Weather Service
- Department of the Interior
 - Bonneville Power Administration
 - Bureau of Land Management
 - Bureau of Reclamation
 - Fish and Wildlife Service
 - Geological Survey
 - National Park Service
- Department of National Defense
 - Corps of Army Engineers

PUBLIC UTILITIES

- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

IRRIGATION DISTRICTS

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warm Springs Irrigation District

PRIVATE ORGANIZATIONS

- The Crag Rats, Hood River, Oregon

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